



# COMBINED DECLARATION / POWER OF ATTORNEY

ATTORNEY DOCKET NO.: 010161

Page 1 of 10

AS BELOW NAMED INVENTOR, I HEREBY DECLARE THAT: This Declaration is of the following type:

- ☒ Original ☐ Supplemental ☐ Continuation-In-Part ☐ Divisional  
☐ Continuation ☐ National Stage of PCT

My residence, post office address and citizenship are as stated below next to my name: I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention **DIRECT CONVERSION RECEIVER ARCHITECTURE** the specification of which:

- ☐ is attached hereto.  
☒ was filed on **December 21, 2001** as Serial No. **10/034,734**  
☐ was amended on (if applicable).  
☐ was described and claimed in PCT International Application No. filed on and as amended under PCT Article 19 on

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Sec. 1.56(a).

I hereby claim foreign priority benefits under Title 35, United States Code, Sec. 119 of any foreign application(s) for patent or inventor's certificate or of any PCT International application(s) designating at least one country other than the United States of America listed below and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT International application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

## Priority Claimed

(Country)	(Application No.)	(Day/Month/Year/Filed)	(Yes)	(No)
-----------	-------------------	------------------------	-------	------

I hereby claim the benefit under Title 35 USC 119(e) of any United States provisional application(s) listed below:

(Serial No.)	(Filing Date)
60/269,623	February 16, 2001

I hereby claim the benefit under Title 35 USC 120 of the United States application(s) listed below, and insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35 USC 112, I acknowledge the duty to disclose material information as defined in Title 37 CFR 1.56(a) which occurred between the filing date of the prior application and the national or PCT International filing date of this application:

(Serial No.)	(Filing Date)	(Status)
--------------	---------------	----------

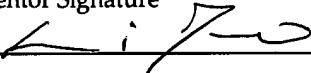
I hereby appoint the following attorneys and/or agents to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected therewith: Russell B. Miller, Reg. No. 31,122, Gregory D. Ograd, Reg. No. 30,880, Bruce W. Greenhaus, Reg. No. 37,339, Charles D. Brown, Reg. No. 28,285, Thomas R. Rouse, Reg. No. 40,793, Kent D. Baker, Reg. No. 38,822, Thomas M. Thibault, Reg. No. 42,181, Christopher O. Edwards, Reg. No. 36,127, Pavel Kalousek, Reg. No. 44,178, Kyong H. Macek, Reg. No. 42,977, Byron Yafuso, Reg. No. 45,244, Kevin J. Clark, Reg. No. 42,421, Sean English, Reg. No. 37,319, Roger W. Martin, Reg. No. 39,291, Sandip S. Minhas, Reg. No. 44,945, Michael D. Hartogs, Reg. No. 36,547, Philip R. Wadsworth, Reg. No. 29,219 and S. Hossain Beladi, Reg. No. 42,311, Albert J. Harnois, Reg. No. 46,123, Sandra L. Godsey, Reg. No. 42,589, George C. Pappas, Reg. No. 35,065, Howard H. Seo, Reg. No. 43,106. Please direct all telephone calls to Philip R. Wadsworth at (858) 651-4404 and address all correspondence to: Sarah Kirkpatrick, Manager, Intellectual Property Administration, QUALCOMM Incorporated, 5775 Morehouse Drive, San Diego, California 92121-1714.

# COMBINED DECLARATION / POWER OF ATTORNEY

ATTORNEY DOCKET NO.: 010161

Page 2 of 10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.


Full Name of First Inventor <b>Tao Li</b>	Inventor Signature 	Date <b>04/01/22</b>
Residence <b>16009 Caminito Tomas, San Diego, CA 92128</b>	Citizenship <b>China</b>	
Post Office Address <b>16009 Caminito Tomas, San Diego, CA 92128</b>		

# COMBINED DECLARATION / POWER OF ATTORNEY

ATTORNEY DOCKET NO.: 010161

Page ~~3~~ 10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

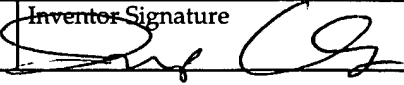
Full Name of Second Inventor <b>Christian Holenstein</b>	Inventor Signature 	Date <b>3/28/02</b>
Residence 4424 Felton Street, San Diego, Ca 92116	Citizenship United States	
Post Office Address 4424 Felton Street, San Diego, Ca 92116		

# COMBINED DECLARATION / POWER OF ATTORNEY

ATTORNEY DOCKET NO.: 010161

Page 4 of 10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

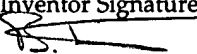
Full Name of Third Inventor <b>Inyup Kang</b>	Inventor Signature 	Date 4/8/2002
Residence 4257 Calle Isabelino, San Diego, Ca 92103	Citizenship Korea	
Post Office Address 4257 Calle Isabelino, San Diego, Ca 92103		

# COMBINED DECLARATION / POWER OF ATTORNEY

ATTORNEY DOCKET NO.: 010161

Page 5 of 10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Fourth Inventor <b>Brett C. Walker</b>	Inventor Signature 	Date 8/29/2002
Residence 12020 Blue Diamond Ct., San Diego, Ca 92131	Citizenship Australia	
Post Office Address 12020 Blue Diamond Ct., San Diego, Ca 92131		

# COMBINED DECLARATION / POWER OF ATTORNEY

ATTORNEY DOCKET NO.: 010161

Page 6 of 10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Fifth Inventor <b>Paul E. Peterzell</b>	Inventor Signature <i>Paul E. Peterzell</i>	Date 04-09-02
Residence 12755 Eastridge Court, San Diego, Ca 92131	Citizenship United States	
Post Office Address 12755 Eastridge Court, San Diego, Ca 92131		

# COMBINED DECLARATION / POWER OF ATTORNEY

ATTORNEY DOCKET NO.: 010161

Page: 7 of 10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Sixth Inventor <b>Raghu Challa</b>	Inventor Signature <i>Raghu Challa</i>	Date 4/4/02
Residence 11928 Tivoli Park, Row #2, San Diego, Ca 92128	Citizenship India	
Post Office Address 11928 Tivoli Park, Row #2, San Diego, Ca 92128		

# COMBINED DECLARATION / POWER OF ATTORNEY

ATTORNEY DOCKET NO.: 010161

Page: 8 of 10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Seventh Inventor <b>Matthew L. Severson</b>	Inventor Signature <i>Matthew L. Severson</i>	Date <i>3/28/2002</i>
Residence 5447 Loganberry Way, Oceanside, Ca 92057	Citizenship United States	
Post Office Address 5447 Loganberry Way, Oceanside, Ca 92057		



# COMBINED DECLARATION / POWER OF ATTORNEY

ATTORNEY DOCKET NO.: 010161

Page 9 of 10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Inventor <b>Arun Raghupathy</b>	Inventor Signature <i>Arun R</i>	Date 28 <sup>TH</sup> MARCH, 2002
Residence 10667 Caminito Alvarez, San Diego, Ca 92126	Citizenship India	
Post Office Address 10667 Caminito Alvarez, San Diego, Ca 92126		

# COMBINED DECLARATION / POWER OF ATTORNEY

ATTORNEY DOCKET NO.: 010161

Page 1004/10

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Full Name of Ninth Inventor <b>Gilbert Christopher Sih</b>	Inventor Signature <i>Gilbert C Sih</i>	Date 4/1/02
Residence 7804 Pipit Place, San Diego, Ca 92129	Citizenship United States	
Post Office Address 7804 Pipit Place, San Diego, Ca 92129		

RECORDATION FORM COVER SHEET  
PATENTS ONLY

Attorney Docket No.: 010161

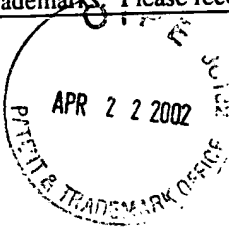
TO: The Commissioner of Patents and Trademarks Please record the attached original document(s) or copy(ies).

## Submission Type

- ☒ New  
☐ Resubmission (Non-Recordation)  
 Document ID No.  
☐ Correction of PTO Error  
 Reel No. Frame No.  
☐ Corrective Document  
 Reel No. Frame No.

## Conveyance Type

- ☒ Assignment  
☐ Change of Name  
☐ License  
☐ Merger  
☐ Security Agreement  
☐ Other: \_\_\_\_\_

Conveying Party(ies) ☐ Mark if additional names are attached

NAME

## EXECUTION DATE

Month, Day, Year (MMDDYYYY)

Tao Li

04/4/2002

Christian Holenstein

03/28/2002

Inyup Kang

04/08/2002

Brett C. Walker

03/29/2002

Paul E. Peterzell

04/09/2002

Raghu Challa

04/04/2002

Matthew L. Severson

03/28/2002

Arun Raghupathy

03/28/2002

Gilbert Christopher Sih

04/01/2002

Receiving Party(ies) ☐ Mark if additional names are attachedName: QUALCOMM Incorporated  
A Delaware Corporation

Address: 5775 Morehouse Drive

Address: San Diego, California, 92121-1714

## Correspondence Name and Address

Name: QUALCOMM Incorporated (PTO Customer No. 23696)  
Attn: Patent Department

Telephone Number: (858) 651-1179

Facsimile: (858) 658-2502

Address: 5775 Morehouse Drive

Address: San Diego, California 92121-1714

Pages (Enter the total number of pages of the attached conveyance document including any attachments)

Total number of pages: ten

## Application Number(s) or Patent Number(s)

If this document is being filed together with a new application, the execution date of the application is:

Patent Application Number(s):

10/034,734

Patent Number(s):

Number of Properties (Enter the total number of properties involved)

Total number of properties: one

## Fee Amount

Fee Amount for Properties Listed (37 CFR 3.41): \$40

Method of Payment: ☐ Enclosed ☒ Deposit Account (A duplicate of this sheet is enclosed for fee processing)

Deposit Account Number: 17-0026

Authorization to charge additional fees: ☒ Yes ☐ No

## Statement and Signature

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document. Charges to deposit account are authorized, as indicated herein.

Date: 4/11/02

Name: George C. Pappas, Reg. No. 35,065  
858-651-1306

Signature: \_\_\_\_\_

FOR OFFICE USE ONLY

## ASSIGNMENT

TO WHOM IT MAY CONCERN:

For the sum of One Dollar and other valuable consideration to us in hand paid, receipt of which is hereby acknowledged, be it known that I,

1. **Tao Li**, a citizen of China, having a place of residence at 16009 Caminito Tomas, San Diego, Ca 92128;
2. **Christian Holenstein**, a citizen of the United States, having a place of residence at 4424 Felton Street, San Diego, Ca 92106;
3. **Inyup Kang**, a citizen of Korea, having a place of residence at 4257 Calle Isabelino, San Diego, Ca 92103;
4. **Brett C. Walker**, a citizen of Australia, having a place of residence at 12020 Blue Diamond Ct., San Diego, Ca 92131;
5. **Paul E. Peterzell**, a citizen of the United States, having a place of residence at 12755 Eastridge Court, San Diego, Ca 92131;
6. **Raghu Challa**, a citizen of India, having a place of residence at 11928 Tivoli Park, Row #2, San Diego, Ca 92128;
7. **Matthew L. Severson**, a citizen of the United States, having a place of residence at 5447 Loganberry Way, Oceanside, Ca 92057;
8. **Arun Raghupathy**, a citizen of India, having a place of residence at 10067 Caminito Alvarez, San Diego, Ca 92126; and
9. **Gilbert Christopher Sih**, a citizen of the United States, having a place of residence at 7804 Pipit Place, San Diego, Ca 92129.

have sold, assigned and transferred and by these presents do sell, assign, transfer and set over unto QUALCOMM Incorporated, a Delaware corporation, having a place of business at 5775

## ASSIGNMENT

Morehouse Drive, San Diego, California 92121-1714, its successors, legal representatives, or assigns, the entire right, title and interest in and to a certain invention relating to a **DIRECT CONVERSION RECEIVER ARCHITECTURE** by me co-devised and the application for United States Patent therefor filed in the United States Patent and Trademark Office on **December 21, 2001** and assigned Serial Number **10/034,734**, and all original and reissue patents granted thereof, and all divisions, and continuations thereof, including the subject matter of any and all claims which may be obtained in every such patent, and all foreign rights to said invention, and covenant that I have full right to do so, and agree that I will communicate to said corporation or its representatives all facts known to me respecting said invention, whenever requested, and testify in any legal proceedings, sign all lawful papers, make all rightful oaths and generally do everything possible to aid said corporation, its successors, assigns and nominees, to obtain and enforce proper patent protection for said invention in all countries.

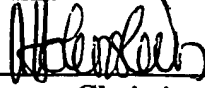
The Commissioner of Patents and Trademarks is requested to issue the Letters Patent which may be granted for said invention or any part thereof unto said corporation in keeping with this Assignment.

Done at San Diego, California this 04 day of 04, 2002.

  
Tao Li

**ASSIGNMENT**

Done at San Diego, California this 28 day of March, 2002.



---

Christian Holenstein

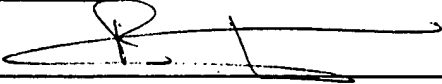
**ASSIGNMENT**

Done at San Diego, California this 8 day of April, 2002.

  
**Inyup Kang**

**ASSIGNMENT**

Done at San Diego, California this 29 day of March, 2002.

A handwritten signature in black ink, appearing to read "Brett C. Walker", is written over a horizontal line.

**Brett C. Walker**



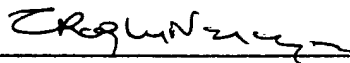
## ASSIGNMENT

Done at San Diego, California this 9th day of April, 2002.

Paul E. Peterzell  
Paul E. Peterzell

**ASSIGNMENT**

Done at San Diego, California this 4<sup>th</sup> day of April, 2002.

  
**Raghu Challa**

**ASSIGNMENT**

Done at San Diego, California this 28 day of MARCH, 2002.

*Matthew L. Severson*

**Matthew L. Severson**

## ASSIGNMENT

Done at San Diego, California this 28<sup>TH</sup> day of MARCH, 2002.

Arun R  
Arun Raghupathy

## ASSIGNMENT

Done at San Diego, California this 1 day of APRIL, 2002.

Gilbert C Sih  
Gilbert Christopher Sih